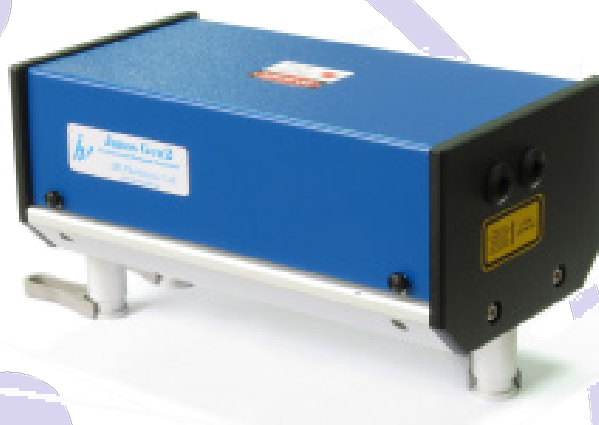
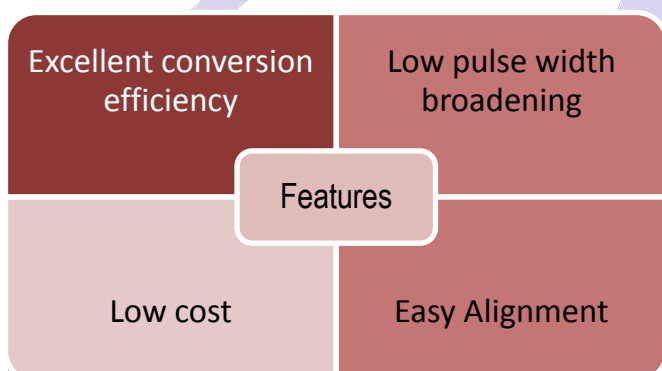


JANOS Gen2

Femtosecond Harmonics Generator



The Janos Harmonic Generator converts the output of femtosecond Ti:Sapphire regenerative amplifiers into the blue and ultraviolet wavelength range. Janos is highly configurable to match any of commercial Ti:Sa amplified laser system with pulse widths ranging from 30 to 200 fs. Second- (SHG) and third- (THG) harmonic outputs are accessible from a single compact optical unit .

For every pump laser, proper internal magnification of the beam is selected to ensure maximum necessary efficiency with minimal pulse broadening for different given input energies, ranging from 0.1mJ (fraction of laser amplifier energy) to 5 mJ (full energy of a co. A second enclosure is added for fourth-harmonic (HGS-F) generation.mmercial amplifier laser).

TECHNICAL SPECIFICATIONS

INPUT REQUIREMENTS

Spatial Beam Profile:	Near TEM ₀₀
Input Wavelength:	780 - 820nm
Input Pulse width:	30 - 200 fs ¹⁾
Beam Deviation:	≤ 2mrad
Input Energy:	0.1 - 5 mJ ²⁾
Beam Diameter:	4 - 15 mm (1/e ²) ³⁾

• Input Polarization:	Linear, Horizontal		
OUTPUT			
• Harmonic	SHG	THG	FHG (optional)
• Conversion:	>25 %	>12 %	>1 %
• Pulse width:	<1.6 x input	<2 x input	-----
• Polarization	Linear, Horizontal	Linear, Vertical	
GENERAL			
• Dimensions:	L380 x W265 x H155 mm ⁴⁾		
• Weight:	8 kg (approx.)		
• Environmental Conditions:	15 – 35 °C, non-condensing		

Notes:

- 1) Janos optics is configurable in four pulse duration ranges: 30-50, 50-80, 80-120 and 120-200 fs to match the pump laser system output.
- 2) Internal magnification of the beam selected for optimum efficiency at different input energies
- 3) Internal magnification of the beam selected for optimum efficiency at different input beam sizes
- 4) Dimensions given for enclosed device only. Open-frame kit of component (Janos-K series) is available for OEM users.